

CLAIMS

1. A method of applying viscous medium on a substrate, comprising the steps of:

screen printing predetermined amounts of a viscous medium on predetermined positions on the substrate; and
add-on jetting of predetermined additional amounts of viscous medium on predetermined positions on the screen printed substrate.

2. The method according to claim 1, further comprising the steps of:

inspecting the results of said screen printing and add-on jetting;

determining errors of said screen printing and add-on jetting based on said inspection:

determining whether correction is required; and

correcting, if correction is required, at least some of said errors, wherein said correction comprises supplemental jetting of additional viscous medium onto the screen printed substrate.

3. The method according to claim 1, comprising the steps of:

inspecting the results of said screen printing prior to said add-on jetting;

determining errors of said screen printing based on said inspection;

determining whether correction is required; and

correcting, if correction is required, at least some of said errors, wherein said correcting comprises supplemental jetting of additional viscous medium onto the screen printed substrate.

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4. The method according to claim 3, wherein said supplemental jetting is performed in connection with performing said add-on jetting.

5 5. The method according to claim 2 or 3, wherein said add-on jetting and said supplemental jetting is performed by a single jetting device.

6. The method according to claim 2 or 3, wherein
10 said step of correcting comprises the step of removing amounts of viscous medium from positions on the substrate.

7. The method according to claim 2 or 3, wherein
15 said step of determining errors comprises the step of evaluating all of the determined errors and deciding on whether the determined errors shall be corrected.

8. The method according to claim 1, further comprising
20 the step of applying at least one viscous medium through said add-on jetting which is different from the viscous medium applied through screen printing.

9. An apparatus for application of viscous medium
25 onto a substrate, comprising:
 screen printing means for screen printing predetermined amounts of a viscous medium on predetermined positions on the substrate; and
 jetting means for jetting predetermined additional
30 amounts of viscous medium on predetermined positions on the screen printed substrate.

10. The apparatus according to claim 9, further comprising:
35 inspection means for inspecting the results of said screen printing and jetting;

processing means for determining errors of said screen printing and jetting based on said inspection; and

correction means for correcting at least some of said errors, wherein said correction means comprises jetting means arranged for supplemental jetting of amounts of viscous medium onto the screen printed substrate.

11. The apparatus according to claim 9, further comprising:

10 inspection means for inspecting the results of said screen printing;

processing means for determining errors of said screen printing based on said inspection; and

15 correction means for correcting at least some of said errors, wherein said correction means comprises jetting means arranged for supplemental jetting of amounts of viscous medium onto the screen printed substrate.

12. The apparatus according to claim 10 or 11, wherein the correction means comprises removing means for removing viscous medium from the screen printed substrate.

13. The apparatus according to claim 10 or 11, wherein the jetting means for jetting additional amounts of viscous medium on predetermined positions on the substrate and the supplemental jetting means is a single jetting means.

14. An apparatus for application of additional viscous medium onto a screen printed substrate, further comprising jetting means for jetting said additional amounts of viscous medium on predetermined positions on the substrate.

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15. The apparatus according to claim 14, further comprising:

inspection means for inspecting the results of said screen printing and jetting;

processing means for determining errors of said screen printing and jetting based on said inspection; and

5 correction means for correcting at least some of said errors, wherein said correction means comprises jetting means arranged for supplemental jetting of amounts of viscous medium onto the screen printed substrate.

10 16. The apparatus according to claim 14, further comprising:

inspection means for inspecting the results of said screen printing;

15 processing means for determining errors of said screen printing based on said inspection; and

correction means for correcting at least some of said errors, wherein said correction means comprises jetting means arranged for supplemental jetting of amounts of viscous medium onto the screen printed substrate.

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17. The apparatus according to claim 15 or 16, wherein the correction means comprises removing means for removing viscous medium from the screen printed substrate.

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18. The apparatus according to claim 15 or 16 , wherein the jetting means for jetting additional amounts of viscous medium on predetermined positions on the substrate and the supplemental jetting means is a single
30 jetting means.

19. A method of applying viscous medium on a substrate, comprising the steps of:

35 screen printing a viscous medium onto the substrate; and

jetting additional viscous medium onto the substrate.

20. A method of applying additional viscous medium on a screen printed substrate, comprising the step of:
jetting additional viscous medium onto the sub-
strate.
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21. An apparatus for application of a viscous medium onto a substrate, comprising:
a screen printer for screen printing predetermined
10 amounts of the viscous medium on predetermined positions on the substrate; and
a jetting device for jetting predetermined additional amounts of viscous medium on predetermined positions on the screen printed substrate.
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22. The apparatus according to claim 21, further comprising:
an inspection device for inspecting the results of said screen printing and jetting;
20 a processor for determining errors of said screen printing and jetting based on said inspection; and
a correction device for correcting at least some of said errors, wherein said correction device comprises a jetting device arranged for supplemental jetting of
25 amounts of viscous medium onto the screen printed substrate.

23. The apparatus according to claim 21, further comprising:
30 an inspection device for inspecting the results of said screen printing;
a processor for determining errors of said screen printing based on said inspection; and
a correction device for correcting at least some of
35 said errors, wherein said correction device comprises a jetting device arranged for supplemental jetting of

amounts of viscous medium onto the screen printed substrate.

24. The apparatus according to claim 22 or 23,
5 wherein the correction device comprises a removing device for removing viscous medium from the screen printed substrate.

25. The apparatus according to claim 22 or 23,
10 wherein the jetting device for jetting additional amounts of viscous medium on predetermined positions on the substrate and the supplemental jetting device is a single jetting device.

26. An apparatus for application of additional viscous medium onto a screen printed substrate, further comprising a jetting device for jetting said additional amounts of viscous medium on predetermined positions on the substrate.

27. The apparatus according to claim 26, further comprising:

an inspection device for inspecting the results of said screen printing and jetting;

25 a processor for determining errors of said screen printing and jetting based on said inspection; and

a correction device for correcting at least some of said errors, wherein said correction device comprises a jetting device arranged for supplemental jetting of
30 amounts of viscous medium onto the screen printed substrate.

28. The apparatus according to claim 26, further comprising:

35 an inspection device for inspecting the results of said screen printing;

a processor for determining errors of said screen printing based on said inspection; and

a correction device for correcting at least some of said errors, wherein said correction device comprises a
5 jetting device arranged for supplemental jetting of amounts of viscous medium onto the screen printed substrate.

29. The apparatus according to claim 27 or 28,
10 wherein the correction device further comprises a removing device for removing viscous medium from the screen printed substrate.

30. The apparatus according to claim 27 or 28,
15 wherein the jetting device for jetting additional amounts of viscous medium on predetermined positions on the substrate and the supplemental jetting device is a single jetting device.

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